AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

- 1. (Currently Amended) A method of growing mammalian spermatogonial stem cells, which comprises growing mammalian spermatogonial stem cells by culturing the spermatogonial stem cells for at least 3 to 4 weeks using <u>feeder cells and</u> a medium containing (a) glial cell-derived neurotrophic factor (GDNF), (GDNF) or neurturin, or artemin and (b) leukemia inhibitory factor (LIF), and (c) serum.
- 2. (Original) The method of growing spermatogonial stem cells of claim 1, wherein the above-described medium further contains at least one of epidermal growth factor (EGF) and basic fibroblast growth factor (bFGF).

3.-5. (Canceled)

- 6. (Currently Amended) The method of growing spermatogonial stem cells of claim 1, wherein the above-described glial cell-derived neurotrophic factor (GDNF) or an equivalent thereto GDNF or neurturin is contained at a concentration of 0.5 to 50 ng/ml in the above-described medium.
- 7. (Currently Amended) The method of growing spermatogonial stem cells of claim 1, wherein the above-described leukemia inhibitory factor (LIF) <u>LIF</u> is contained at a concentration of 10² to 10⁴ units/ml in the above-described medium.
- 8. (Currently Amended) The method of growing spermatogonial stem cells of claim 2, wherein epidermal growth factor (EGF) the EGF is contained at a concentration of 0.5 to 50 ng/ml in the above-described medium.
- 9. (Currently Amended) The method of growing spermatogonial stem cells of claim 2, wherein the above-described basic fibroblast growth factor (bFGF) <u>bFGF</u> is contained at a concentration of 0.5 to 50 ng/ml in the above-described medium.
- 10. (Currently Amended) The method of growing spermatogonial stem cells of claim $\frac{3}{5}$, wherein the above-described serum is contained at a concentration of 0.1 to

5(v/v)% in the medium at the start of cultivation of the above-described spermatogonial stem cells, and at a concentration of 0.1 to 20(v/v)% in the medium after passage of the above-described-spermatogonial stem cells.

11.-27. (Canceled)